ABSTRACT

Systems and methods are provided for monitoring and suppressing arcing between a first electrode and a second electrode of an electro-kinetic system. A current (or voltage) associated with the electro-kinetic system is monitored in order to adjust a first count and a second count. Each time a monitored value reaches a threshold, the first count is incremented. Each time the first count reaches a first count threshold, the electro-kinetic system is temporarily shut down for a predetermined period, the second count is incremented, and the first count is re-initialized. The electro-kinetic system restarts after the predetermined period. When the second count reaches a second count threshold, the electro-kinetic system is shut-down until a reset condition is satisfied.